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PTO/SB/08A1S (08-03)
Approved for use through 07/31/2006 GMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449AB/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet **1** of **11**

Complete if Known

Application Number	10/586,072
Filing Date	
First Named Inventor	BROUGH, Douglas E.
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	253625

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Person or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Document Number	Kind Code		
AA	US- 4,797,368			01-10-1989 Carter et al.	
AB	US- 5,543,328			08-06-1996 McClelland et al.	
AC	US- 5,559,099			09-24-1996 Wickham et al.	
AD	US- 5,712,136			01-27-1998 Wickham et al.	
AE	US- 5,731,190			03-24-1998 Wickham et al.	
AF	US- 5,756,086			05-26-1998 McClelland et al.	
AG	US- 5,770,442			06-23-1998 Wickham et al.	
AH	US- 5,801,030			09-01-1998 McVey et al.	
AI	US- 5,804,413			09-08-1998 DeLuca	
AJ	US- 5,837,511			11-17-1998 Falck-Pedersen et al.	
AK	US- 5,837,532			11-17-1998 Preston et al.	
AL	US- 5,840,686			11-24-1998 Chader et al.	
AM	US- 5,846,782			12-08-1998 Wickham et al.	
AN	US- 5,849,561			12-15-1998 Falck-Pedersen	
AO	US- 5,849,572			12-15-1998 Glorioso et al.	
AP	US- 5,851,806			12-22-1998 Kovesdi et al.	
AQ	US- 5,871,727			02-16-1999 Curiel	
AR	US- 5,885,808			03-23-1999 Spooner et al.	
AS	US- 5,922,315			07-13-1999 Roy	

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

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		Document Number	Ref. Code			
AT	US- 5,962,311			10-05-1999	Wickham et al.	
AU	US- 5,965,358			10-12-1999	Carrión et al.	
AV	US- 5,965,541			10-12-1999	Wickham et al.	
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AZ	US- 6,057,155			05-02-2000	Wickham et al.	
BA	US- 6,063,627			05-16-2000	McVey et al.	
BB	US- 6,127,525			10-03-2000	Crystal et al.	
BC	US- 6,153,435			11-28-2000	Crystal et al.	
BD	US- 6,165,754			12-26-2000	Crystal et al.	
BE	US- 6,168,941			01-02-2001	Liu et al.	
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BH	US- 6,329,190			12-11-2001	Wickham et al.	
BI	US- 6,329,200			12-11-2001	McVey et al.	
BJ	US- 6,383,795			05-07-2002	Carrión et al.	
BK	US- 6,440,728			08-27-2002	McVey et al.	
BL	US- 6,447,995			09-10-2002	Carrión et al.	
BM	US- 6,455,314			09-24-2002	Wickham et al.	

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		Document Number	Kind Code			
BN	US- 6,465,253			10-15-2002	Wickham et al.	
BO	US- 6,475,757			11-05-2002	McVey et al.	
BP	US- 6,482,616			11-19-2002	Kovesdi et al.	
BQ	US- 6,576,456			06-10-2003	Wickham et al.	
BR	US- 6,649,373			11-18-2003	Brough et al.	
BS	US- 6,660,521			12-09-2003	Brough et al.	
BT	US- 2001/0043922	A1		11-22-2001	Kovesdi et al.	
BU	US- 2001/0047081	A1		11-29-2001	Roelvink et al.	
BV	US- 2002/0004040	A1		01-10-2002	Kovesdi et al.	
BW	US- 2002/0031831	A1		03-14-2002	Kovesdi et al.	
BX	US- 2002/0034735	A1		03-21-2002	Carrión et al.	
BY	US- 2002/0099024	A1		07-25-2002	Wickham et al.	
BZ	US- 2002/0110545	A1		08-15-2002	Kovesdi et al.	
CA	US- 2002/0151027	A1		10-17-2002	Wickham et al.	
CB	US- 2003/0099619	A1		05-29-2003	Wickham et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Case No.	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines Where Relevant Passages or Relevant Figures Appear	Translation Provided?	
		Office	Number	Kind Code				Yes	No
CC	WO	91/02788	A	03-07-1991	University of Glasgow				
CD	WO	93/24529	A	12-09-1993	Univ. Southern California				

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Sheet	4	of	11	Attorney Docket Number	253625

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Examiner Initials	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Paragraphs or Relevant Figures Appeared	Translation Provided**
		Office	Number				
CE	WO	95/34671	A	12-21-1995	GenVec, Inc.		Yes
CF	WO	96/04394	A	02-15-1996	Medical Research Council		No
CG	WO	96/07734	A	03-14-1996	GenVec, Inc.		No
CH	WO	96/26281	A	08-29-1996	GenVec, Inc.		No
CI	WO	97/00326	A	01-03-1997	Introgen BV et al.		No
CJ	WO	97/09439	A	03-13-1997	GenVec, Inc.		No
CK	WO	97/12986	A	04-10-1997	Cornell Res. Foundation		No
CL	WO	97/20051	A	06-06-1997	GenVec, Inc.		No
CM	WO	97/21826	A	06-19-1997	GenVec, Inc.		No
CN	WO	97/30722	A	08-28-1997	Amgen, Inc.		No
CO	WO	98/07865	A	02-26-1998	GenVec, Inc.		No
CP	WO	98/07877	A	02-26-1998	GenVec, Inc.		No
CQ	WO	98/15637	A	04-16-1998	University of Pittsburgh		No
CR	WO	98/40509	A	09-17-1998	Cornell Res. Foundation		No
CS	WO	98/53087	A	11-26-1998	Cornell Res. Foundation		No
CT	WO	98/54346	A	12-03-1998	GenVec, Inc.		No
CU	WO	98/56937	A	12-17-1998	GenVec, Inc.		No
CV	WO	99/04806	A	02-04-1999	Northwestern University		No
CW	WO	99/06583	A	02-11-1999	University of Pittsburgh		No
CX	WO	99/15686	A	04-01-1999	GenVec, Inc.		No

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Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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				First Named Inventor	BROUGH, Douglas E.
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Sheet	5	of	11	Attorney Docket Number	253625

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		Office	Number	Kind Code			
CY	WO 99/54441	A	10-28-1999	GenVec, Inc.			
CZ	WO 00/00628	A	01-06-2000	GenVec, Inc.			
DA	WO 00/12765	A	03-09-2000	GenVec, Inc.			
DB	WO 00/15823	A	03-23-2000	GenVec, Inc.			
DC	WO 00/34496	A	06-15-2000	GenVec, Inc.			
DD	WO 00/73764	A	12-07-2000	Baylor Coll. of Medicine			
DE	WO 01/58494	A	08-16-2001	GenVec, Inc. et al.			
DF	WO 01/58940	A	08-16-2001	GenVec, Inc.			
DG	WO 01/77304	A	10-18-2001	GenVec, Inc.			
DH	WO 01/92549	A	12-06-2001	GenVec, Inc.			
DI	WO 02/29388	A	04-11-2002	GenVec, Inc.			

OTHER - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials ¹	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number (if applicable), publisher, city and/or country where published.					Translation Prepared ²
		Yes	No				
DJ	AVRAHAM et al., "Prospects for gene therapy in hearing loss," <i>J. Basic Clin. Physiol. Pharmacol. (Israel)</i> , 14 (2): 77-83 (2003).						
DK	BAYLOR COLLEGE OF MEDICINE, "MATH1 signal heralds process of differentiation in intestinal lining," <i>Biocompare News</i> , December 6, 2001. (Retrieved from the internet on December 10, 2001.)						

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Substitute for form 1448A/B/PTO				Complete If Known	
				Application Number	10/586,072
				Filing Date	
				First Named Inventor	BROUGH, Douglas E.
				Group Art Unit	1632
				Examiner Name	
Sheet	6	of	11	Attorney Docket Number	253625

OTHER - NON PATENT LITERATURE DOCUMENTS					
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	DL	BEN-ARIE et al., "Abnormal cerebellar development in mice lacking the murine homolog of the <i>Drosophila</i> proneural gene <i>ataonal</i> ," <i>Am. J. Hum. Genet.</i> , 59 (4 Suppl.): A46 (Abstract #232) (1996).			Yes No
	DM	BEN-ARIE et al., "Evolutionary conservation of sequence and expression of the bHLH protein Atonal suggests a conserved role in neurogenesis," <i>Hum. Mol. Genet.</i> , 5 (9): 1207-1216 (1996).			
	DN	BEN-ARIE et al., " <i>Math 1</i> is essential for genesis of cerebellar granule neurons," <i>Nature</i> , 390: 169-172 (November 13, 1997).			
	DO	BERMINGHAM et al., " <i>Math1</i> : An essential gene for the generation of inner ear hair cells," <i>Science</i> , 284: 1837-1841 (June 11, 1999).			
	DP	BERMINGHAM-McDONOGH, "Hair cell regeneration: winging our way towards a sound future," <i>Curr. Opin. Neurobiol.</i> , 13: 119-126 (2003).			
	DQ	BROUGH et al., "Activation of transgene expression by early region 4 is responsible for a high level of persistent transgene expression from adenovirus vectors <i>in vivo</i> ," <i>J. Virol.</i> , 71 (12): 9206-9213 (December 1997).			
	DR	CAREY et al., "Hair cell regeneration and recovery of the vestibuloocular reflex in the avian vestibular system," <i>J. Neurophysiol.</i> , 76 (5): 3301-3312 (November 1996).			
	DS	CHADER, "Multipotential differentiation of human Y-79 retinoblastoma cells in attachment culture," <i>Cell Different.</i> , 20 (2-3): 209-216 (1987).			
	DT	CHEN et al., "The role of Math1 in inner ear development: Uncoupling the establishment of the sensory primordium from hair cell fate determination," <i>Development</i> , 129 (10): 2495-2505 (2002).			

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Sheet	7	of	11	Attorney Docket Number	253625
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OTHER - NON PATENT LITERATURE DOCUMENTS				
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	DU	CHIEN et al., "Neuronal type information encoded in the basic-helix-loop-helix domain of proneural genes," <i>Proc. Natl. Acad. Sci. USA</i> , 93: 13239-13244 (November 1996).	Yes	No
	DV	CRAWFORD-MIKSZA et al., "Analysis of 15 Adenovirus hexon proteins reveals the location and structure of seven hypervariable regions containing serotype-specific residues," <i>J. Virol.</i> , 70 (3): 1836-1844 (1996).		
	DW	CREA et al., "Chemical synthesis of genes for human insulin," <i>Proc. Natl. Acad. Sci. USA</i> , 75 (12): 5765-5769 (December 1978).		
	DX	DOOLING, "Recovery of hearing and vocal behavior after hair-cell regeneration," <i>Proc. Natl. Acad. Sci. USA</i> , 94: 14206-14210 (December 1997).		
	DY	EINFELD et al., "Reducing the native tropism of adenovirus vectors requires removal of both CAR and integrin interactions," <i>J. Virol.</i> , 75 (23): 11284-11291 (December 2001)		
	DZ	GRAHAM et al., "Characteristics of a human cell line transformed by DNA from human adenovirus type 5," <i>J. Gen. Virol.</i> , 36: 59-72 (1977).		
	EA	GUO et al., "The nuclear matrix protein NMP-1 is the transcription factor YY1," <i>Proc. Natl. Acad. Sci. USA</i> , 92: 10526-10530 (1995).		
	EB	HASSON et al. "Expression in cochlea and retina of myosin VI α , the gene product defective in Usher syndrome type 1B," <i>Proc. Natl. Acad. Sci. USA</i> , 92: 9815-9819 (October 1995).		
	EC	HAWKINS, "Comparative otopathology: aging, noise, and ototoxic drugs," <i>Adv. Otorhinolaryngol.</i> , 20: 125-141 (1973)		
	ED	ITAKURA et al., "Expression in <i>Escherichia coli</i> of a chemically synthesized gene for the hormone somatostatin," <i>Science</i> , 198, (4321): 1056-1063 (1977).		

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	EE	JARMAN et al., "Atonal is a proneural gene that directs chordotonal organ formation in the drosophila peripheral nervous system," <i>Cell</i> , 73: 1307-1321 (July 2, 1993).	Yes	No	
	EF	JERO et al., "Cochlear gene delivery through an intact round window membrane in mouse," <i>Hum. Gene Ther.</i> , 12: 539-548 (March 20, 2001).			
	EG	KANZAKI et al., "From gene identification to gene therapy," <i>Audiol. Neurotol.</i> , 7 (3): 161-164 (2002).			
	EH	KAWAMOTO et al., "Math1 gene transfer generates new cochlear hair cells in mature guinea pigs <i>in vivo</i> ," <i>J. Neurosci.</i> , 23 (11): 4395-4400 (June 1, 2003).			
	EI	KAWAMOTO et al., "The functional and structural outcome of inner ear gene transfer via the vestibular and cochlear fluids in mice," <i>Mol. Ther.</i> , 4 (6): 575-585 (2001).			
	EJ	LAUGHLIN et al., "Closing of infectious adeno-associated virus genomes in bacterial plasmids," <i>Gene</i> , 23: 65-73 (1983).			
	EK	LUEBKE et al., "A modified adenovirus can transfect cochlear hair cells <i>in vivo</i> without compromising cochlear function," <i>Gene Ther.</i> , 8: 789-794 (2001).			
	EL	LUEBKE et al., "Cochlear function and transgene expression in the guinea pig cochlea, using adenovirus- and adeno-associated virus-directed gene transfer," <i>Hum. Gene Ther.</i> , 12: 773-781 (May 1, 2001).			
	EM	MARINOVIC et al., "Ubiquitin (UbC) expression in muscle cells is increased by glucocorticoids through a mechanism involving Sp1 and MEK1*," <i>J. Biol. Chem.</i> , 277 (19): 16673-16681 (May 10, 2002).			
	EN	MILLAR et al., "Molecular mechanisms regulating hair follicle development," <i>J. Invest. Dermatol.</i> , 118: 216-225 (2002).			

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EO	MONTCOUQUIOL et al., "Intracellular signals that control cell proliferation in mammalian balance epithelia: Key roles for phosphatidylinositol-3 kinase, mammalian target of rapamycin, and S6 kinases in preference to calcium, protein kinase C, and mitogen-activated protein kinase," <i>J. Neurosci.</i> , 21 (2): 570-580 (January 15, 2001).				Yes No
EP	MORI et al., "Pigment epithelium-derived factor inhibits retinal and choroidal neovascularization," <i>J. Cell. Physiol.</i> , 188: 253-263 (2001).				
EQ	PIGNOLO et al., "Senescent WI-38 cells fail to express EPC-1, a gene induced in young cells upon entry into the G0 state," <i>J. Biol. Chem.</i> , 268 (12): 8949-8957 (April 25, 1993).				
ER	SABATÉ et al., "Adenovirus for neurodegenerative diseases: in vivo strategies and ex vivo gene therapy using human neural progenitors," <i>Clin. Neurosci.</i> , 3: 317-321 (1996).				
ES	SCHWARZE et al., "In vivo protein transduction: delivery of a biologically active protein in the mouse," <i>Science</i> , 285: 1569-1572 (September 3, 1999).				
ET	SHOU et al., "Robust generation of new hair cells in the mature mammalian inner ear by adenoviral expression of <i>Hath1</i> ," <i>Mol. Cell. Neurosci.</i> , 23 (2): 169-179 (June 2003).				
EU	STAECCKER et al., "Brain-derived neurotrophic factor gene therapy prevents spiral ganglion degeneration after hair cell loss," <i>Otolaryngol. Head Neck Surg.</i> , 119: 7-13 (1998).				
EV	STAECCKER et al., "Gene expression in the mammalian cochlea: a study of multiple vector systems," <i>Acta Otolaryngol.</i> , 121: 157-163 (2001).				
EW	STÖVER ET AL., "Cochlear gene transfer: round window versus cochleostomy inoculation," <i>Hearing Res.</i> , 136: 124-130 (1999).				

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patient, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(e)(3).

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	10	of	11	Attorney Docket Number	253625
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OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation Required**
EX	SUN et al., "Transcriptional regulation of atonal during development in the <i>Drosophila</i> peripheral nervous system," <i>Development</i> , 125: 3731-3740 (1998).		Yes No
EY	SUZUKI et al., "Effect of transgenic GDNF expression of gentamicin-induced cochlear and vestibular toxicity," <i>Gene Ther.</i> , 7 (12): 1046-1054 (June 2000).		
EZ	TONG et al., "Genomic organization of the JEM-1 (BLZF1) gene on human chromosome 1q24: molecular cloning and analysis of its promoter region," <i>Genomics</i> , 69 (3): 380-390 (November 2000).		
FA	TONG et al., "Expression patterns of the <i>JEM-1</i> gene in normal and tumor cells: ubiquity contrasting with a faint, but retinoid-induced, mRNA expression in promyelocytic NB4 cells," <i>Leukemia</i> , 12 (11): 1733-1740 (1998).		
FB	VAN BEUSECHEM et al., "Efficient and selective gene transfer into primary human brain tumors by using single-chain antibody-targeted adenoviral vectors with native tropism abolished," <i>J. Virol.</i> , 76 (6): 2753-2762 (March 2002).		
FC	WAGNER et al., "Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type I," <i>Proc. Natl. Acad. Sci. USA</i> , 78: 144-145 (1981)		
FD	WANG et al., "Second generation adenovirus vectors," <i>Nature Med.</i> , 2 (6): 714-716 (1996).		
FE	WILLIAMS et al., "Structure/function analysis on interleukin-2-toxin (DAB ₄₈₆ -IL-2)," <i>J. Biol. Chem.</i> , 265 (20): 11885-11887 (July 15, 1990).		
FF	ZHENG et al., "Overexpression of <i>Math1</i> induces robust production of extra hair cells in postnatal rat inner ears," <i>Nature Neurosci.</i> , 3 (6): 580-586 (June 2000).		
FG	ZINE et al., " <i>Hes1</i> and <i>Hes5</i> activities are required for the normal development of the hair cells in the mammalian inner ear," <i>J. Neurosci.</i> , 21 (13): 4712-4720 (July 1, 2001).		

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PTO/SB/05A/B (06-03)

Substitute for Form 1449A/B/PTO				Complete if Known
				Application Number
				10/586,072
				Filing Date
				First Named Inventor
				BROUGH, Douglas E.
				Group Art Unit
				1632
				Examiner Name
Sheet	11	of	11	Attorney Docket Number
				253625

OTHER - NON PATENT LITERATURE DOCUMENTS

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